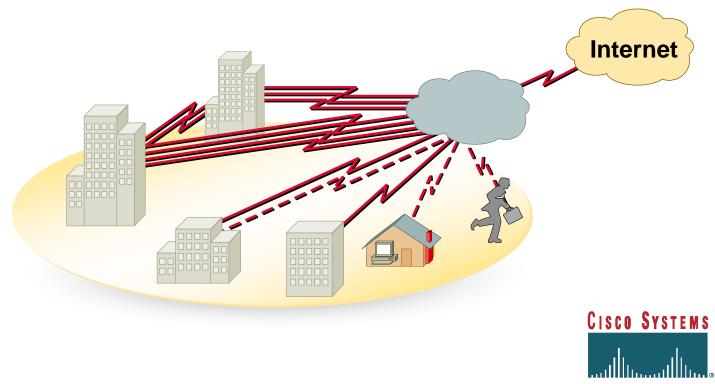
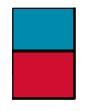


# Organizational Impact and Opportunities of the Internet Economy

Dr. Bruce Nelson
Chief Science Officer
Cisco Systems
BNelson@Cisco.com

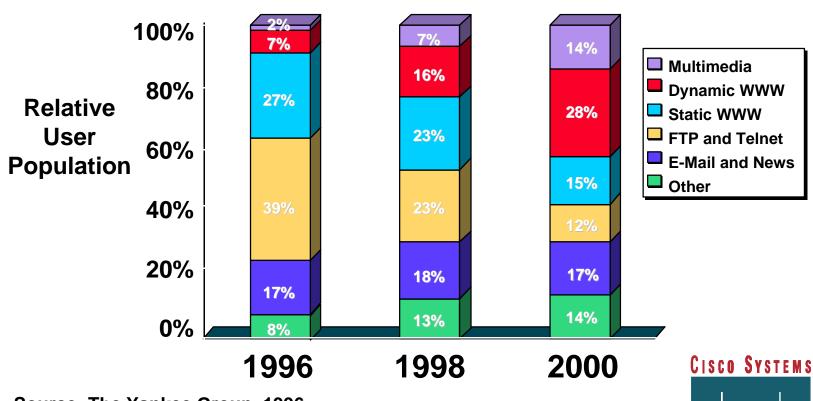
## Important Internet **Trends**





### **Internet Traffic Mix Shifting**

## To Transactional Pages (Red) and Audio/Video Content (Purple)



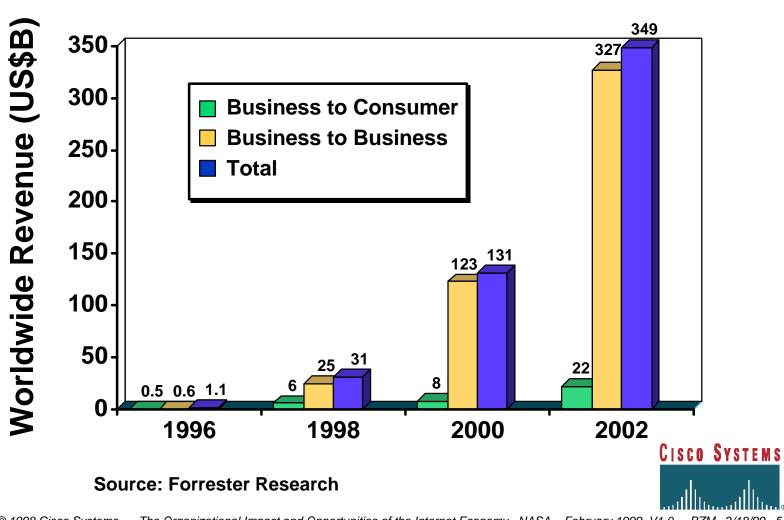
**Source: The Yankee Group, 1996** 

## Trendsetting Transactions in the Internet Economy

**Traditional Business** Inefficiencies Removed **Trendsetters** 



## **Rapid I-Commerce Growth**



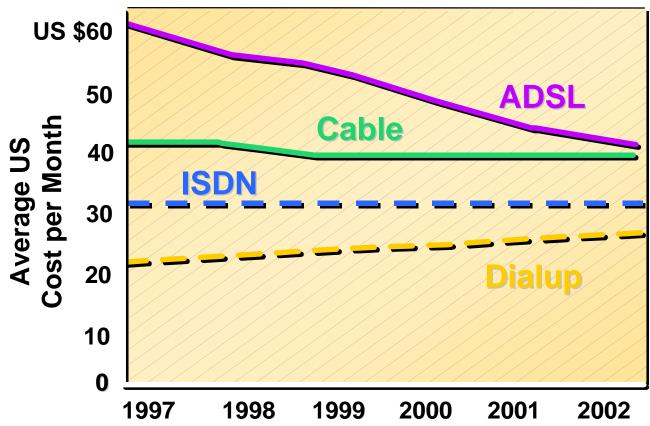
## **Internet Advertising Rising**

- \$0 in 1993.
- \$300 million in 1996.
- \$3.7 billion in 1999.



Source: Jupiter

# Home Access: Faster Getting Cheaper



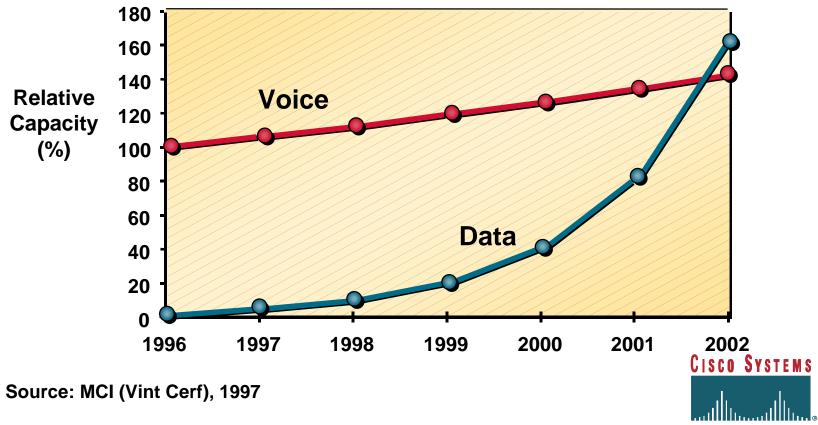
Source: Forrester Research, January 1998

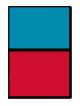




## **Data Overtaking Voice**

 International data traffic to North America already exceeds international voice from Australia and Scandinavia.





#### **AT&T Offers Consumer VolP!**



September 16, 1998

Bruce Nelson 556 Sandy Way Think you're getting a great long distance rate?

How about

7½¢ a minute?

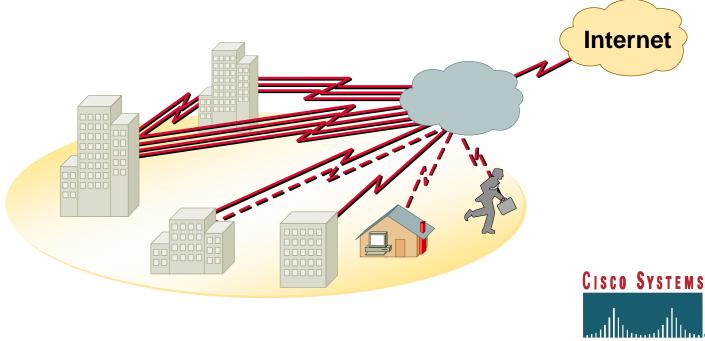
#### Dear Bruce Nelson:

How would you like a basic, no-frills long distance service that lets you call anywhere in the United States whenever you feel like it for 7½¢ a minute?\* Sounds pretty far-fetched, right? Then you probably haven't heard about AT&T **Connect 'N Save**® Service.

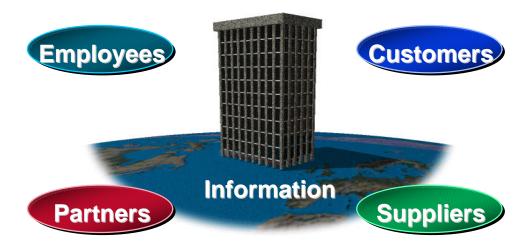
#### Here's how it works.

All you need to make a call with AT&T **Connect 'N Save** Service is your regular touch-tone telephone. AT&T **Connect 'N Save** Service uses our world-class Internet technology instead of standard telephone circuits to transmit your voice. Since that costs us less, we pass the savings on to you.

# Internet Economy: The Opportunity

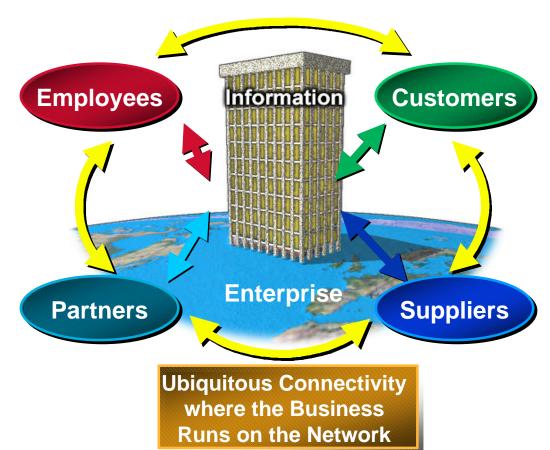


#### **Businesses Facing New Challenges**



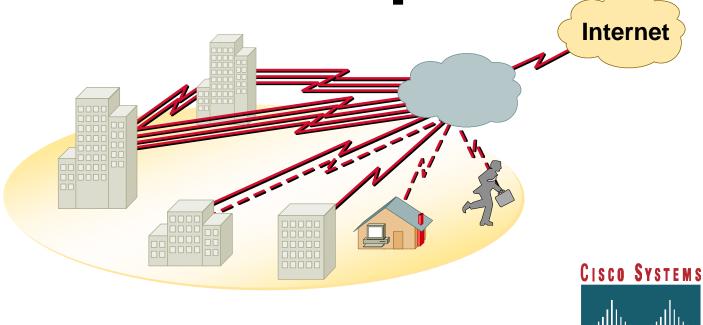
- Competition is intense and usually international in scope.
- Pace of business is accelerating; time to market demands are extreme.
- Global info access is crucial.

## "Internet Business" IT for Competitive Advantage



- More "personal" and rapid customer service.
- Greater accuracy.
- Competitive agility.
- Higher productivity; lower costs.
- Faster time to market.
- Time-zone and geography independence.

# Internet Organizations: Cisco Example





#### Cisco's Web Business Rationale

#### Challenge

- Scale the company.
- Maintain high-quality customer support and enhance satisfaction.
- Maximize return to shareholder in times of:

Rapid growth.

Technology change.

Acquisitions.

Shortage of experts.

#### Results

Dramatic competitive advantage through:

Higher customer satisfaction.

Faster time to market.

Lower expenses.

Shorter lead times.

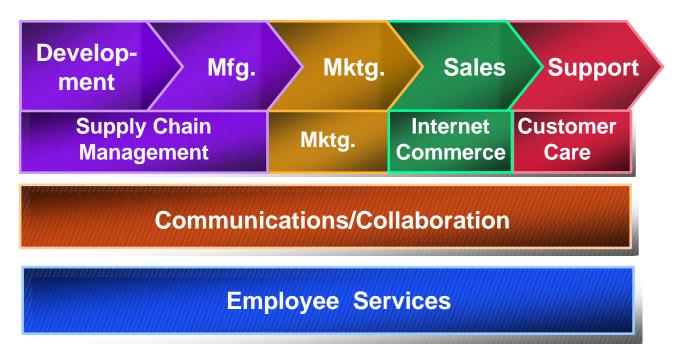
Increased responsiveness.

Better ROL



## Cisco's Web-Business Approach

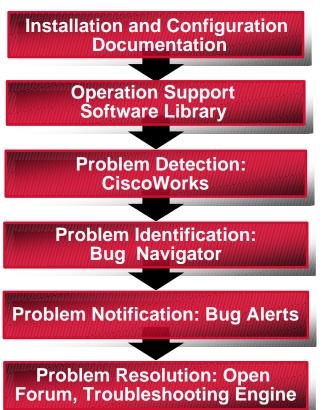
**CCO: Cisco Connection Online: Internet** 



CEO: Cisco Employee Connection: Intranet

#### **CCO Customer Care**

#### **Cisco Connection Online**







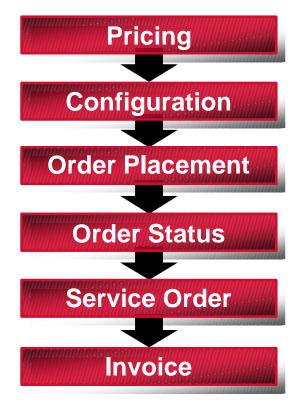
#### **Customer Care Results**

**June 1998** 

Satisfaction 4.17

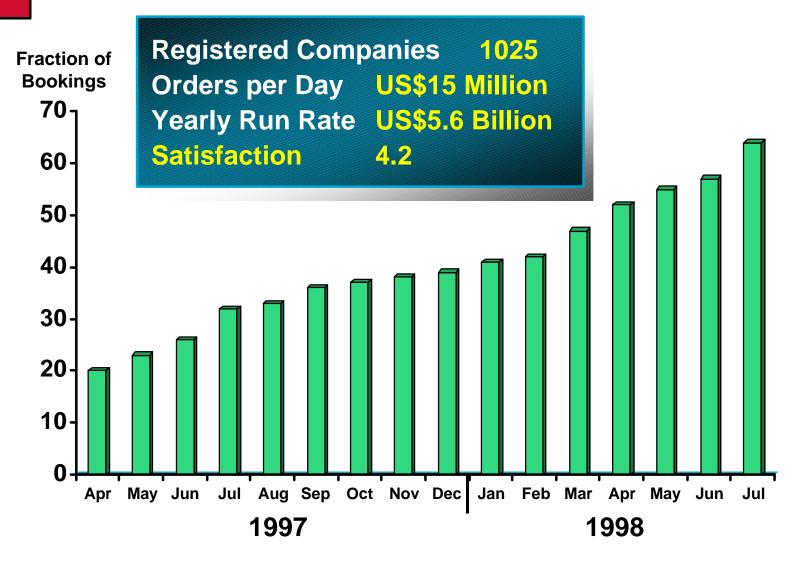


# "Full Service" CCO Internet Commerce





#### **I-Commerce Results**

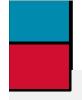




## **Interactive Marketing**

- Event & seminar registrations.
- Cisco product registration.
- CCO personal update.
- News release push.
- Publishing.
- Training registration.





## **CCO Marketing Results**

- In an average month:
  - 10,000+ products registered.
  - 24,000+ seminar registrations.
  - 20,000+ customer/partner event registrations.
  - 800+ CCO personal updates sent.
  - 2,500+ news releases pushed.
  - 500+ marketing documents published.
  - 25,000+ training classes searched.



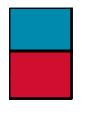
### **Employee Services**

#### **Cisco Employee Connection**

- Employee services:
  - Travel/expense.
  - Benefits enrollment.
  - Training registration.
  - Stock information.
  - Internal IT help desk.
  - Directory and organization chart.





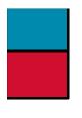


#### Communication/Collaboration

- IP/TV for sales/product training.
- Company-wide employee meetings and broadcasts.
- Collaboration with suppliers for new product design.
- Stanford University Engineering courses online.





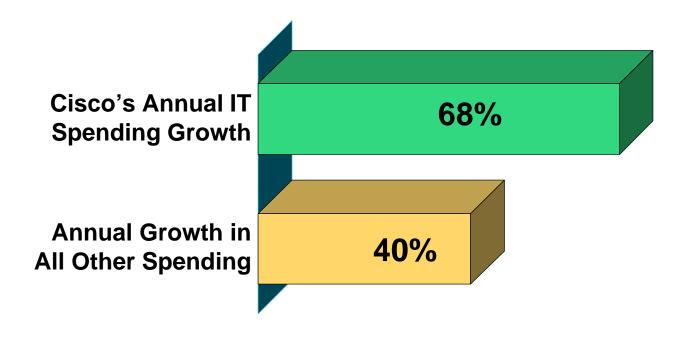


# Summary Financial Impact of Internet Business in FY98

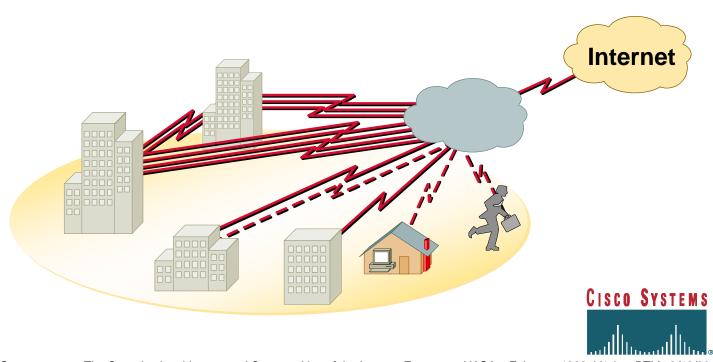
<b>Business Process:</b>	Financial Contribution:
<b>Customer Care</b>	
<ul> <li>Headcount Avoidance</li> </ul>	\$75,000,000
<ul> <li>Software Distribution</li> </ul>	\$250,000,000
<ul> <li>Document Publishing</li> </ul>	\$40,000,000
Internet Commerce	
<ul><li>Headcount Avoidance</li></ul>	\$12,000,000
<b>Supply Chain Management</b>	
<ul> <li>Reduced Operating Cost</li> </ul>	75,000,000
<ul> <li>Increased Contribution</li> </ul>	100,000,000
<b>Employee Services</b>	
Online Hiring	\$8,000,000
<ul> <li>Productivity Increase</li> </ul>	\$4,000,000
Total (audited internally by CFO):	\$550,000,000

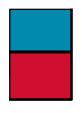


## Relative Growth of IT vs. Other Spending (1996–1998 CAGR)



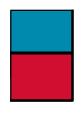
# Internet Economy: Reality Check





### **New Realities: Internet Economy**

- Competitive advantage will be more difficult to attain in the Internet Economy and even more difficult to sustain.
- Focus of Internet initiatives on critical business practices is necessary but not sufficient, because they are easily replicable.
- Internet initiatives and the business processes they impact need to be questioned constantly and continuously revisited (you're never done!).
- The Internet Economy requires companies and organizations to form relationships to compete.
- Early movers accrue advantages when they develop new products/services or create new business models, because they: get the best talent, build the best partnerships, secure a "good-will" premium.



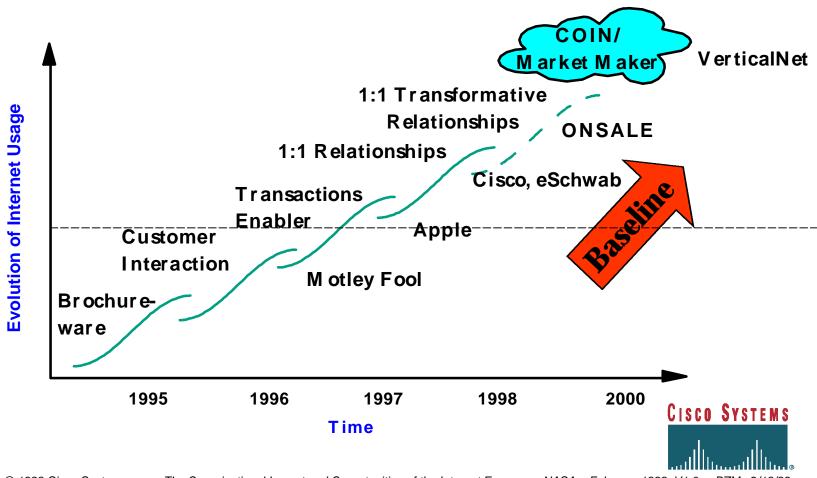
#### **Drivers of Success**

- Having a clear and customer-driven value proposition.
- Ruthless execution.
- Scalable solutions/infrastructure.
- Innovative Business Models.
  - Development of new practices.
- Vision Driven.
- Portfolio of solutions supporting articulated vision.
- "Real-time" Organization
  - Ability to identify and exploit opportunities quickly.
- Projects with continuous scope.
  - Recognition of need for ongoing development/modification.
- Evangelism + Hyperbole = Perceived Success.

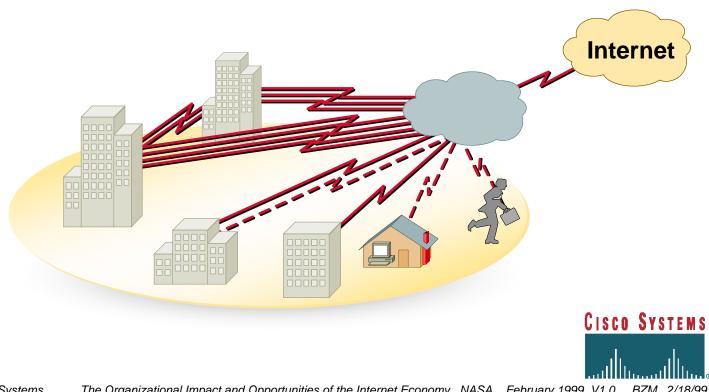
# Barriers to Success (Drivers of Failure)

- Technology driven.
  - Letting capabilities of new technologies dictate moves.
- Inadequate application/network architecture.
  - Lack of scalable systems and solutions needed for growth.
- Legacy business models.
  - "Webifying" old business practices (bulldog with lipstick).
- Islands of webification.
  - Creation of discontinuous and non-synergistic applications.
- "Me too" strategies.
  - Copying or following the moves of others.
- Projects with finite scope.
  - Not realizing there is a continuing development effort CISCO SYSTEMS

#### **Evolution of Internet Initiatives**

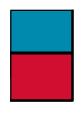


## **Net-Readiness**



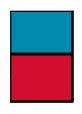
# **Net-Readiness** for Organizations

- Leadership.
- Governance / Operating Model.
- Technology.
- Competencies.



### Leadership

- Is it clear who has decision authority on initiatives?
- Is there an E-Business mindset up/down our organization?
- Is generating competitive advantage via Internet technologies a top priority for senior management?
- Is there a team responsible for the strategic intent of initiatives?
- Are our Internet initiatives integrated with our business strategy?
- Is there a driving vision for our Internet initiatives?
- Is senior management attuned to the opportunities/threats enabled by the Internet?

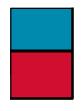


#### Governance

- Are roles, responsibilities and accountability clearly defined?
- Is there an administrative process in place for initiatives?
- Do we have an established method for assessing and selecting Internet strategies?
- How do E-Business initiatives get funded?
- What drives our Internet initiatives—IT, marketing, customers, competitors?
- Do we have an established method for allocating resources for Internet initiatives?
- Do we have established metrics for measuring the impact of our Internet initiatives?
- Are we organized to effectively deliver our Internet initiatives?

# Technology

- Is this solution be flexible enough to accommodate change?
- Do we have the technical competencies to support Internet initiatives?
- Is this solution customizable to our and our customer needs?
- Do we have the technological infrastructure (network services, hardware, software) required to develop and scale?
- Do we have sufficient funding for ongoing web-site maintenance?
- Do we have operations capabilities required to support our Internet strategy?

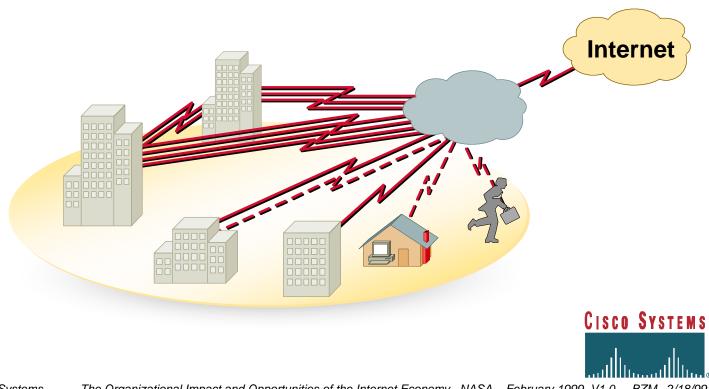


## **Organizational Competencies**

- Do we have experience managing multiple relationships (both internal and external)?
- Can we form and dissolve relationships quickly?
- Do we have Internet-related consulting experience?
- Do we have experience selling services?
- Do we continually innovate our product & service offerings?
- How responsive to customer needs are we?
- Is the experience and skill set of our Internet team adequate?
- Can the organization and individuals learn quickly from experience?

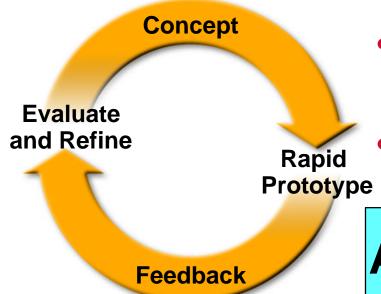


## Conclusion



# Internet Economy: How to Get Started

#### **Executive Sponsorship**



- Executive sponsorship.
- Practical, tractable, highpayoff applications.
- Walk, trot, run, sprint.

Are you net-ready?

**Network Foundation** 

# Cisco's Commitment: IP Dialtone for the 21st Century

